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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,800	12/26/2001	Heeyoung Jung	P67470US0	5969
43569	7590	08/19/2005	EXAMINER	
MAYER, BROWN, ROWE & MAW LLP 1909 K STREET, N.W. WASHINGTON, DC 20006			LEE, PHILIP C	
			ART UNIT	PAPER NUMBER
			2154	
DATE MAILED: 08/19/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/025,800

Applicant(s)

JUNG ET AL.

Examiner

Philip C. Lee

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

### A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 May 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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1. This action is responsive to the amendment and remarks filed on May 25, 2005.
2. Claims 1-8 are presented for examination.
3. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

*Claim Rejections – 35 USC 102*

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

5. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1-2, 4-5 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Agrawal et al, U.S. Patent Application Publication 2004/0024901 (hereinafter Agrawal).

7. Agrawal was cited in the last office action.

8. As per claim 1, Agrawal taught the invention as claimed for managing a mobility service in Internet protocol networks, comprising:

a gateway means for managing interfacing with Internet and location information of a mobile host (page 5, paragraphs 54-55; fig. 2);

a transfer means with a plurality of hierarchical nodes and a switching function, for connecting the gateway means with the mobile host (page 6, paragraph 70-page 7, paragraph 72), where each of the nodes (e.g. 250, 260) includes a plurality of base stations (page 5, paragraphs 52 and 57); and

a storage means for storing the location information of the mobile host (page 5, paragraph 55).

9. As per claim 2, Agrawal taught the invention as claimed in claim 1 above. Agrawal further taught wherein the gateway means manages the interfacing with Internet and the storage means for managing the location information of the mobile host (page 5, paragraph 55), and adds additional header data to packet data received for the data transmission to the mobile host,

wherein the additional header data represents the location information of the mobile host (page 6, paragraph 70).

10. As per claim 4, Agrawal taught the invention as claimed in claim 2 above. Agrawal further taught wherein the mobile host interfaces with the base station via a wireless network, transmits location registration message to the base station when the mobile host enters into a new domain, and transmits location update message when it moves to a new node within the domain (page 6, paragraph 63).

11. As per claims 5 and 7, Agrawal taught the invention as claimed for managing a mobility service in Internet protocol networks, the method comprising:

receiving a location registration message or a location update message, which is generated responsive to a mobile host (page 5, paragraph 61), through a node having a hierarchical architecture (page 5, paragraph 52; page 6, paragraph 63);  
storing the received location registration message or the received location update message in a database (page 5, paragraphs 65-68); and  
transferring a packet to the location of the mobile host contained in the location registration message or the location update message, through the node having the hierarchical architecture (page 6, paragraph 70-page 7, paragraph 72).

*Claim Rejections – 35 USC 103*

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. Claims 3, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Agrawal in view of “Official Notice”.

14. As per claim 3, Agrawal taught the invention as claimed in claim 2 above. Although Agrawal taught wherein the transfer means having the plurality of hierarchical nodes (page 5, paragraphs 52 and 57) and the switching function transmit domain identification and identification of a base station (page 6, paragraph 66), however, Agrawal did not teach periodically broadcasts through a beacon. “Official Notice” is taken for the concept of periodically broadcasts through a beacon is known and accepted in the art. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include periodically broadcasts through a beacon because by doing so it would increase the alertness of Agrawal’s system by providing notification to a mobile user regarding its location.

15. As per claims 6 and 8, Agrawal taught the invention as claimed in claims 5 and 7 above.

Although Agrawal taught wherein the location registration message or the location update message includes an identification of the base station in which the user is located (page 5, paragraphs 55 and 60), however, Agrawal did not teach including an identification of a user.

“Official Notice” is taken for the concept of including an identification of a user in the location registration message or the location update message is known and accepted in the art. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include an identification of a user in the location registration message or the location update message because by doing it would increase the efficiency of Agrawal’s system by allowing registration information to be stored with the identification of a user in the database.

16. Applicant’s arguments with respect to claims 1-8, filed 5/25/05, have been fully considered but are not deemed to be persuasive.

17. Because Applicants have failed to challenge any of the Examiner's “Official Notices” stated in the previous office action in a proper and reasonably manner, they are now considered as admitted prior art. See MPEP 2144.03

18. In the remark applicant argued that

(1) Agrawal does not disclose a hierarchical structure between nodes as recited in claim 1. Accordingly, Agrawal fails to teach a system managing a mobility service in Internet protocol networks that includes a transfer means with

a plurality of hierarchical nodes and a switching function, for connecting the gateway means with the mobile host, where each of the nodes includes a plurality of base stations, as recited in claim 1.

19. In response to point (1), the arguments filed May 25, 2005 is insufficient to overcome the rejection of claim 1 over Agrawal et al under 35 USC § 102(e) as set forth in the last Office action mailed on February 25, 2005 because it fails to establish a persuasive argument. In particular, page 4, paragraph 3 of the amendment states: “Agrawal does not disclose a hierarchical structure between nodes as recited in claim 1.” It is noted that the features upon which applicant relies (i.e., a hierarchical structure between nodes) are not recited in the rejected claim 1. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Claim 1 merely states: a transfer means with a plurality of “hierarchical nodes”. In addition, claims 5 and 7 which claimed similar feature merely state: “a node having a hierarchical structure”. At most “hierarchical nodes” or “a node having a hierarchical structure” can be interpreted as a node with structure of hierarchy, rather than hierarchical structure between nodes.

20. Agrawal taught a node with structure of hierarchy, specifically, figure 2 shows nodes 250 and 260 with subnet agent, such as a router, a DHCP server, or a DRCP server (i.e. structure of hierarchy) (page 5, paragraph 58). Accordingly, Agrawal taught a system managing a mobility service in Internet protocol networks that includes a transfer means with a plurality of



hierarchical nodes (fig. 2; page 5, paragraph 58) and a switching function, for connecting the gateway means with the mobile host (page 6, paragraph 70-page 7, paragraph 72), where each of the nodes (e.g. 250, 260) includes a plurality of base stations (page 5, paragraphs 52 and 57). The rejection is maintained.

21. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

22. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Lee whose telephone number is (571) 272-3967. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Philip Lee



LARRY D. DONAGHY  
PRIMARY EXAMINER